Maryland Historical Trust

Maryland Inventory of Historic Properties number:	2866,		
Name: MD147 OVEZ HAYSTACK	- FRONCH		
$oldsymbol{igvee}$			
The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.			
MARYLAND HISTORICAL TRU	JST		
Eligibility RecommendedX Eligib	oility Not Recommended		
Criteria:ABCD Considerations:AB _	CDEFGNone		
Comments:			
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001		
Reviewer NR Program: Peter E Kurtze	Data: 2 Amril 2001		

Maryland Inventory of Historic Properties Historic Bridge Inventory Maryland State Highway Administration Maryland Historical Trust

Mai yiand Fistorical Trust
SHA Bridge No. 3091 Name: MD 147 over Haystack Branch
<u>Location:</u> Street/Road Name and Number: <u>MD 147 (Harford Road)</u>
City/Town: Mt. Vista Vicinity X
County: Baltimore
Ownership: X State County Municipal Other
This bridge projects over:RoadRailway_X_WaterLand
Is the bridge located within a designated district: $\underline{}$ yes $\underline{\underline{X}}$ no
_NR listed district_NR determined eligible district _locally designated_other Name of District
Bridge Type:
_Timber Bridge _Beam Bridge_Truss-Covered_Trestle _Timber-and-Concrete
_Stone Arch
_Metal Truss
_Movable Bridge _Swing_Bascule Single Leaf_Bascule Multiple Leaf _Vertical Lift_Retractile_Pontoon
_ Metal GirderRolled GirderRolled Girder Concrete EncasedPlate GirderPlate Girder Concrete Encased
_Metal Suspension
_Metal Arch
_Metal Cantilever
X Concrete X Concrete Arch Concrete Slab Concrete Beam Rigid Frame
_Other Type Name

Describe Setting:

Bridge 3091 carries MD 147 over Haystack Branch. MD 147 runs in an east west direction and crosses northern flowing Haystack Branch. MD 147 (Harford Road) is a major corridor between Baltimore City and Baltimore County with a great degree of commercial and residential development. However, at this junction there is limited development.

Describe Superstructure and Substructure:

Bridge 3091 is a single-span, filled spandrel concrete arch bridge built in 1915. The bridge is 48 feet long with a clear span measuring 32 feet. The arch has a rise of 4 feet 9 inches. There is a clear roadway width of 22 feet, with an overall bridge width of 23 feet. According to a 1997 inspection report, the concrete arch has random cracks with efflorescence, exposed reinforcement bars, and some pop-outs. In addition, there is severe scaling with exposed concrete aggregates and partially exposed reinforcement bars with signs of rust. There are map cracks with efflorescence and random spalls. The bridge is in fair condition with a sufficiency rating of 63.2.

This bridge has a solid panel type railing. This type of reinforced concrete railing consists of vertical post securely fastened by dowels to the structure, horizontal balustrades and solid panels filling the space between the posts and the railing. There are four parapets on either side of the bridge with incised end posts. The outer posts are 3 feet wide while the inner posts are 1 foot in width. The parapet is 2 feet 2 inches tall with an 8-inch cap. There are two sections of panels connecting the parapets, each incised 2 inches. Each incised section of the panel is 2 feet by 4 feet with both panels forming a 13-foot section between the parapets. In addition, there is an 8-inch ledge extending beneath the parapet.

The outside faces and the bottom line of the railing are spalling, exposing aggregates and rusty reinforcement bars along the ledge edges. There are horizontal cracks on the outside faces. On the inside faces, there is concrete surface erosion and spalling. The intermediate posts have spalls at the bottom, exposing aggregates and some reinforcement bars.

The abutments are 5 feet by 25 feet. The abutments are directly below the springline. There is heavy concrete erosion on both abutment faces exposing aggregates on the water or bottom line.

The spandrel walls have heavy spalling with exposed reinforcement bars, and efflorescence on the eastern side of the bridge. On the western side of the bridge the spalling extends 4 inches along the southeast edge, exposing aggregate. This side of the bridge also has surface spalling, surface erosion and random cracking with efflorescence.

Discuss Major Alterations:

There have been no major alterations to this bridge. However, in September 1995 the State Highway Administration provided stream control to prevent further scour of the abutments with the use of grout bags.

History:

When Built: 1915

Why Built: Expansion of Harford Road from Baltimore to Bel Air

Who Built: State Roads Commission

Why Altered: N/A

Was this bridge built as part of an organized bridge building campaign?. No, this bridge was not built as part of an organized bridge building campaign.

Surveyor Analysis:

This bridge may have NR significance for association with:

XA Events Person

X C Engineering/Architectural

The bridge was determined eligible by the Interagency Review Committee in June 1996.

Was this bridge constructed in response to significant events in Maryland or local history?

Yes, the State Roads Commission was engaged in the construction of mainline truck roads that would connect the state's county seats and major transportation hubs. Work on 6 roads within Baltimore County was undertaken concurrently with work in Baltimore City. Coordination between the two jurisdictions was needed to insure correct alignments of bridge approaches and surfaces. As a result, the State Roads Commission used almost identical bridge plans as the City. In some cases an expensive construction cost was unavoidable. This parallel construction with Baltimore City reduced the available funds for the county. As a consequence, the work was confined to 6 roads located within a short distance of the City limits.

One of these 6 roads was Harford Road. Harford Road was also known as the Baltimore to Bel Air Road. The improvement of this corridor was at the heart of the "Seven Year Plan". Beginning in 1908 a contract was let on sections of Harford Road from the City Limits to Taylor Avenue (about 3 miles). Although only a 3-mile section of the road was paved and graded, the replacement of timber bridges along the corridor would fell within the scope of the "Seven-Year Plan."

Bridge 3091 represents a non-standardized design by the staff of the State roads Commission. By 1915, standard plans had been made for all bridges with spans up to 36 feet in length. It was necessary only for the Resident Engineer (Districts were known as residences) to investigate the foundations, and then to refer to the standard plan and select the type of foundations that would fit the location and conditions. However, concrete slabs and girders as well as arches over 36 feet were designed for individual situations in 1915.

Bridge 3091 is just north of Bridge 3093, crossing Long Green Creek. The two bridges are of the same design and were constructed at the same time.

Is the bridge located in an area that may be eligible for historic designation and would the bridge add to or detract from historic and visual character of the possible district?

No, this bridge is not located in an are that is eligible for historic designation as a district.

Is the bridge a significant example of its type?

Yes, this bridge is an example of a State Roads Commission design prior to the creation of standardized plans for arches.

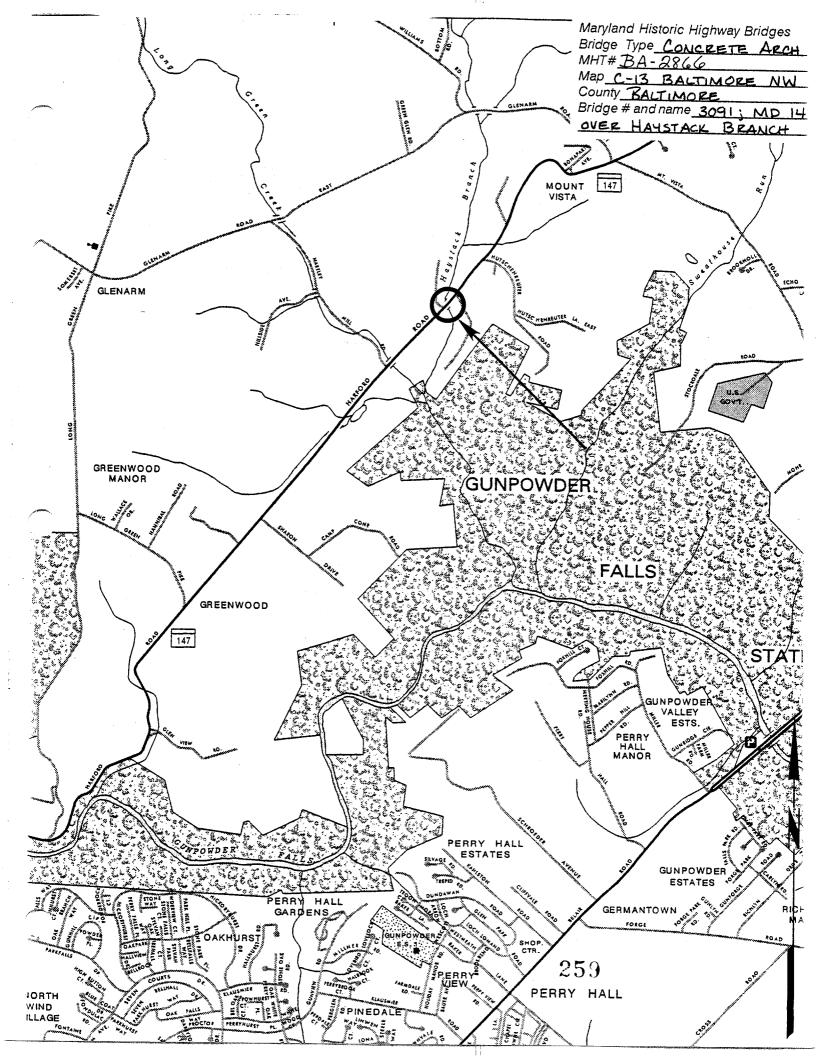
Does the bridge retain integrity of the important elements described in the Context Addendum?

The bridge retains integrity of the character defining elements of a concrete arch, including its wingwalls, abutments, spandrel walls, and parapets. The bridge retains integrity of location, design, setting, materials, workmanship, feeling, and association. However, the bridge does have serious problems.

Should this bridge be given further study before significance analysis is made and why?

No this bridge should be given further study.

Bibliography: County inspection/bridge files SHA inspection/bridge files X Other (list):
Johnson, Arthur Newhall 1899 The Present Condition of Maryland Highways. In <i>Report on the Highways of Maryland</i> . Maryland Geological Survey, The Johns Hopkins University Press, Baltimore.
P.A.C. Spero & Company and Louis Berger & Associates 1995 Historic Highway Bridges in Maryland: 1631-1960: Historic Context Report. Maryland State Highway Administration, Maryland State Department of Transportation, Baltimore, Maryland.
State Roads Commission 1958 A History of Road Building in Maryland. State Roads Commission of Maryland, Baltimore, Maryland.
Tyrrell, H. Grattan 1909 Concrete Bridges and Culverts for Both Railroads and Highways. The Myron C. Clark Publishing Company, Chicago and New York.
SURVEYOR:
Date bridge recorded December 1997 Normal of Supergraphs Welliage Montgomory, & Associates / P. A. C. Spare & Company
Name of surveyor Wallace/Montgomery & Associates / P.A.C. Spero & Company Our analysis of the Market Representation of the P.A.C. Spero & Co., 40 W. Chasappage Avenue, Baltimore, MD 21204
Organization/Address P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Baltimore, MD 21204 Phone number (410) 296-1635 FAX number (410) 296-1670





Inventory # BA - 2866

MD147	OVER HAYS	MACK	BRANCE
BALTIM	MORE COUNT	KY IMO	>
otographer	DAVE I	REHL	
15			
Negative _	SHA		
NORTH			
JOHN H	- 119+ 3+0(+0)		
	otographer Negative NORTH	NORTH APPROACH	Negative SHA

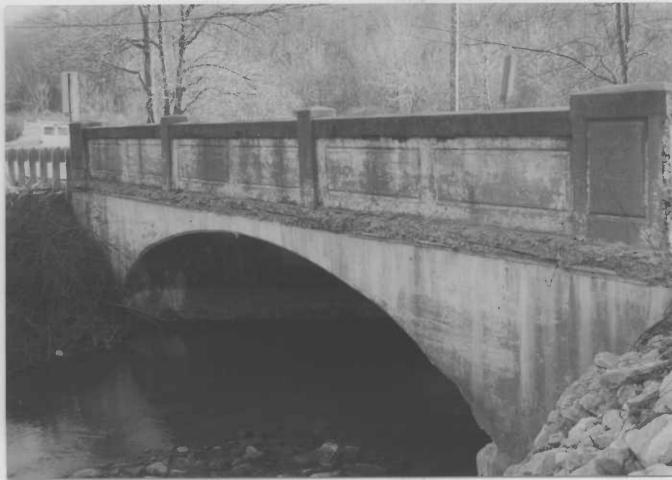
10=4



Inventory	#	BA	2866	

County/State	BALTIN tographer	OVER HAYSTAC MORE COUNT DAVE DIF	TY/MD
Location of I	Negative	SHA	
	EAST	ELEVATION	LOOKING

2 0 = 4



Inventory # <u>BA-2866</u>		
Name 3091 - MD 147 OVE	R HAYSTACK	BRANCH
County/State ON TIMESOS	= 6.000 101/1	110

Name of Photographer DAVE DIEHL

Date 1 95

Location of Negative SHA

Description WEST ELEVATION LOOKING NORTHEAST

3 of 4



Inventory	#	BA-2866
-----------	---	---------

Name 3091- MD147				
County/State BALT	MORE COUNTY /MD			
Name of Photographer	DAVE DEHL			
Date 1/95				
Location of Negative SHA				
Description South	APPROACH LOOKING			
NOKTH				

4 0 4